

Electronic Supplementary Material for
**Heparin Protects the Severe Acute Pancreatitis by Inhibiting HMGB-1 Active
Secretion from Macrophage**

Jing Yang¹, Xujiao Tang¹, Qingqing Wu¹, Panpan Ren¹, Yishu Yan^{1,*}, Wei Liu² and Chun Pan³

¹ School of Life Sciences and Health Engineering, Jiangnan University, Wuxi 214122, China;
yangjing@jiangnan.edu.cn (J.Y.); 6201507011@stu.jiangnan.edu.cn (X.T.);
6191502015@stu.jiangnan.edu.cn (Q.W.); 6201507007@stu.jiangnan.edu.cn (P.R.)

² Jiangsu Key Laboratory of Druggability of Biopharmaceuticals, State Key Laboratory of Natural Medicines,
School of Life Science and Technology, China Pharmaceutical University, Nanjing 210009, China;
liuwei@cpu.edu.cn

³ Department of Critical Care Medicine, Zhongda Hospital, Southeast University, Nanjing 210009, China;
panchun1982@gmail.com

* Correspondence: yanyishu@jiangnan.edu.cn

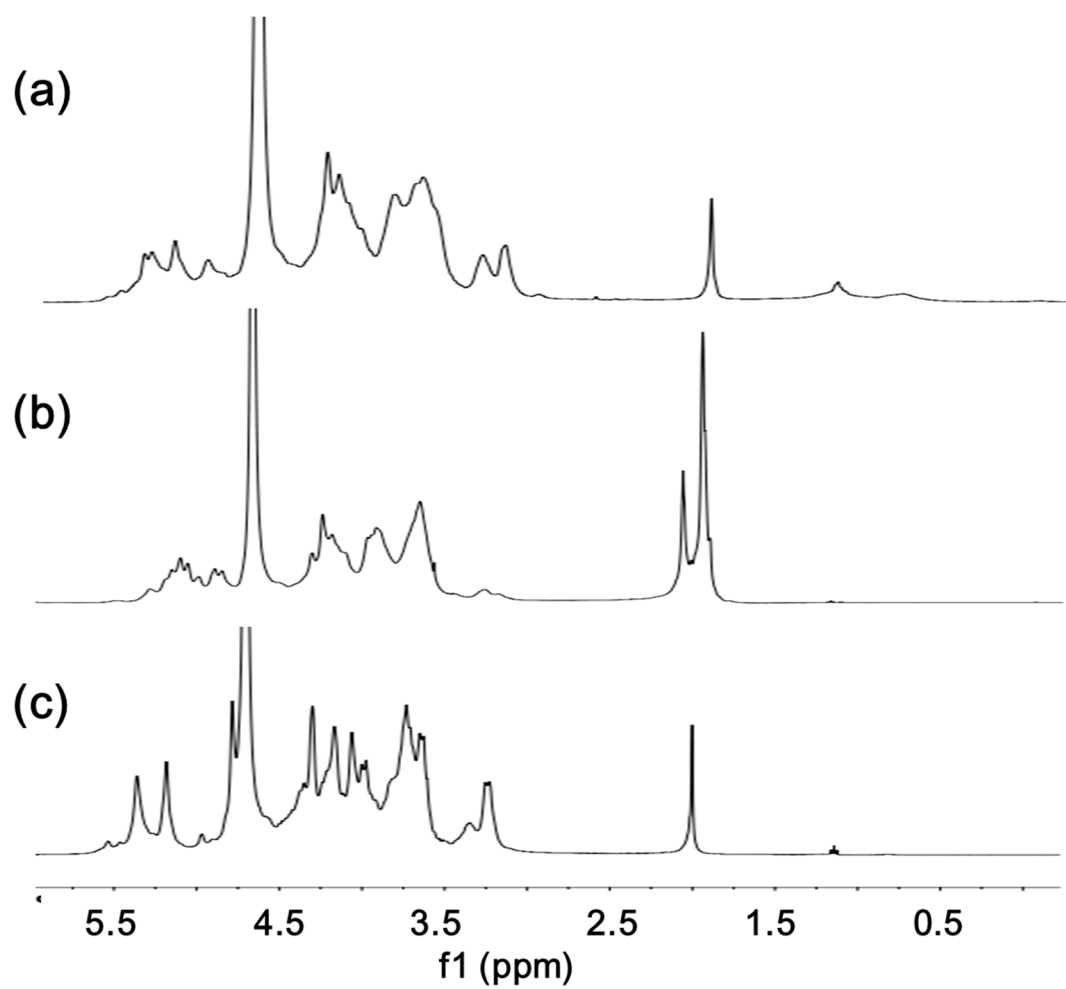


Figure S1. Comparison of ^1H NMR spectrum of heparin and 6-desO H and N-Ac H.

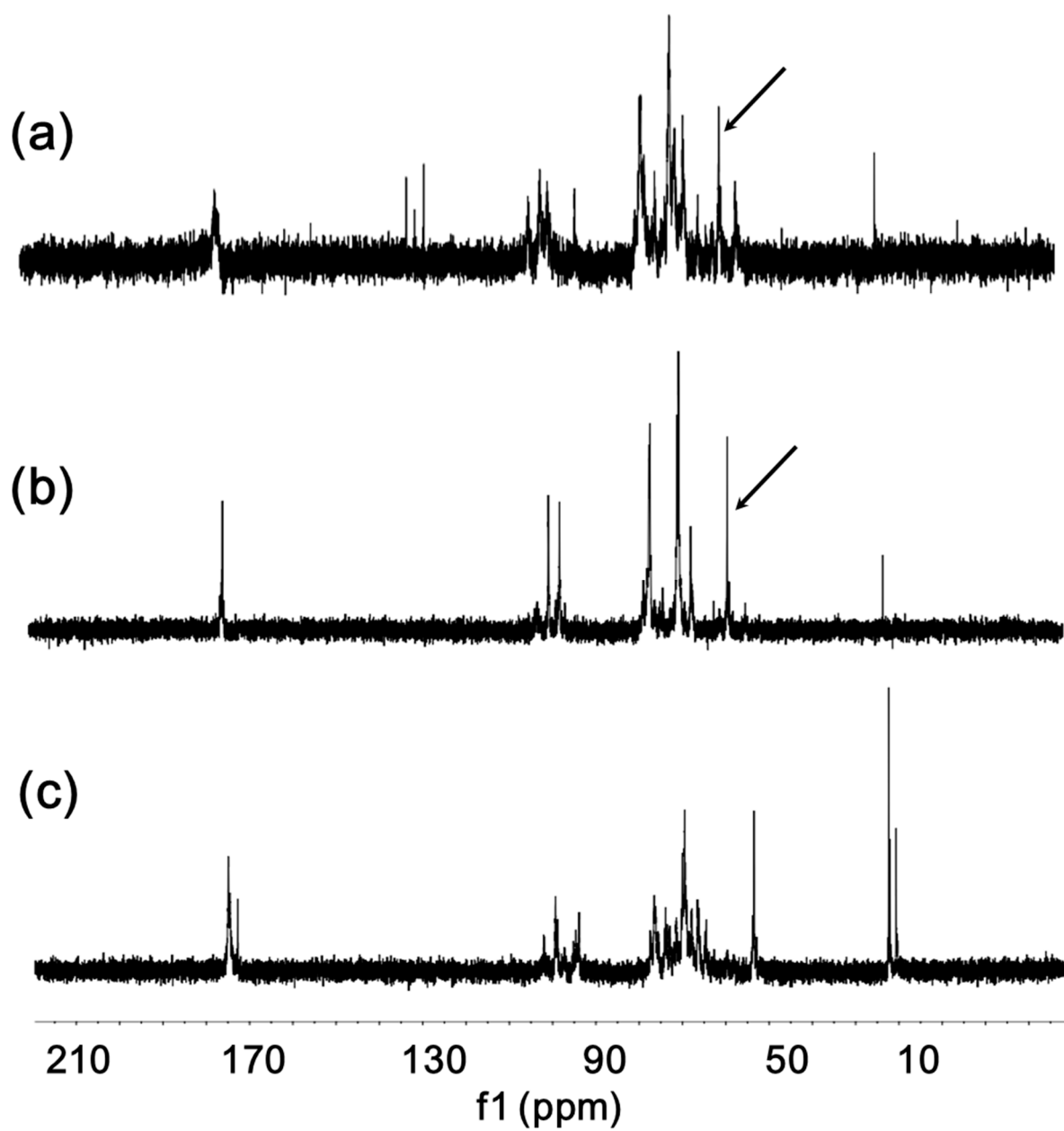


Figure S2. Comparison of ^{13}C NMR spectrum of heparin and 6-desO H and N-Ac H.

Table S1. Molecular weight distributions of the heparin derivatives

Sample	Mw	Mn	Mw/Mn	Mw distribution(%)			
				>24k	16k- 24k	8k-16k	<8k
Heparin	17375	14994	1.155	16.64	36.09	42.01	5.26
6-desOH	15271	13170	1.16	10.24	26.03	53.11	10.62
N-acetyl H	15722	13750	1.143	9.75	31.14	51.42	7.69